

What is claimed is:

1. A color filter array having a green filter layer on a substrate

wherein the green filter layer comprises

5 a copper phthalocyanine dye having its absorption maximum at a wavelength of 600 to 700 nm, and

a pyridone azo dye having its absorption maximum at a wavelength of 400 to 500 nm; and

10 has a transmittance at a wavelength of 450 nm of 5% or less and that at 535 nm of 62% or more.

2. The color filter array having a green filter layer on a substrate according to claim 1, wherein the green filter layer further comprises a pirazolone azo dye showing its absorption maximum at a wavelength of 400 to 500 nm.

15 3. The color filter array having a green filter layer on a substrate according to claim 1,

wherein the green filter layer further comprises a

triallylmethane dye showing its absorption maximum at a wavelength within the range of from 580 to 680 nm, and

20 has a transmittance of 5% or less at 450 nm, that of 62% or more at 535 nm and that of 10% or less at 650 nm.

4. The color filter array having a green filter layer on a substrate according to claim 2,

wherein the green filter layer further comprises a

25 triallylmethane dye showing its absorption maximum at a wavelength within the range of from 580 to 680 nm, and

has a transmittance of 5% or less at 450 nm, that of 62% or more at 535 nm and that of 10% or less at 650 nm.

5. A color filter array having a green filter layer on a substrate

wherein the green filter layer comprises a triallylmethane dye showing its absorption maximum at a wavelength within the range of from 580 to 680 nm, and has a transmittance of 10% or less at 650 nm.

6. A process for producing a color filter array having a green filter layer on a substrate

which comprises the step of patterning a photosensitive resin composition comprising

a copper phthalocyanine dye having its absorption maximum at a wavelength of 600 to 700 nm, and

a pyridone azo dye having its absorption maximum at a wavelength of 400 to 500 nm

to form the green filter layer having a transmittance at a wavelength of 450 nm of 5% or less and that at 535 nm of 62% or more.

7. The process according to claim 6, wherein the photosensitive resin composition further comprises a

pirazolone azo dye showing its absorption maximum at a wavelength of 400 to 500 nm.

8. The process according to claim 6, wherein the photosensitive resin composition further comprises

triallylmethane dye showing its absorption maximum at a wavelength within the range of from 580 to 680 nm, and

the the green filter layer has a transmittance of 5% or less at 450 nm, that of 62% or more at 535 nm and that of 10% or less at 650 nm.

9. The process according to claim 7, wherein the photosensitive resin composition further comprises triallylmethane dye showing its absorption maximum at a wavelength within the range of from 580 to 680 nm, and
5 the the green filter layer has a transmittance of 5% or less at 450 nm, that of 62% or more at 535 nm and that of 10% or less at 650 nm.